Information for heat pump space heaters and heat pump combination heaters

Warm climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**161**	%
Equipped with a supplementary heater:	**No**	Package efficiency class:		-
Heat pump combination heater:	**No**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**8**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**8,3**	kW
T j = + 7 °C	*Pdh*	**5,3**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**8,3**	kW
T j = operation limit temperature	*Pdh*	**8,3**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2687**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**157**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**2,75**	-
T j = +7 °C	*COPd*	**3,78**	-
T j = +12 °C	*COPd*	**5,12**	-
T j = bivalent temperature	*COPd*	**2,75**	-
T j = operation limit temperature	*COPd*	**2,75**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters
Warm climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**204**	%
Equipped with a supplementary heater:	**No**	Package efficiency class:		-
Heat pump combination heater:	**No**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**10,0**	kW
T j = + 7 °C	*Pdh*	**6,4**	kW
T j = + 12 °C	*Pdh*	**2,9**	kW
T j = bivalent temperature	*Pdh*	**10,0**	kW
T j = operation limit temperature	*Pdh*	**10,0**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2566**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**200**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**4,29**	-
T j = +7 °C	*COPd*	**5,29**	-
T j = +12 °C	*COPd*	**5,71**	-
T j = bivalent temperature	*COPd*	**4,29**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Average climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**159**	%
Equipped with a supplementary heater:	**No**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**No**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**6,0**	kW
T j = + 2 °C	*Pdh*	**3,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**6,7**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3444**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**155**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**3,25**	-
T j = +2 °C	*COPd*	**4,18**	-
T j = +7 °C	*COPd*	**4,70**	-
T j = +12 °C	*COPd*	**5,34**	-
T j = bivalent temperature	*COPd*	**3,00**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Average climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**212**	%
Equipped with a supplementary heater:	**No**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**No**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**8,8**	kW
T j = + 2 °C	*Pdh*	**5,4**	kW
T j = + 7 °C	*Pdh*	**3,5**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**9,8**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3800**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**208**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,59**	-
T j = +2 °C	*COPd*	**5,60**	-
T j = +7 °C	*COPd*	**6,05**	-
T j = +12 °C	*COPd*	**6,03**	-
T j = bivalent temperature	*COPd*	**4,30**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Cold climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**167**	%
Equipped with a supplementary heater:	**No**	Package efficiency class:		-
Heat pump combination heater:	**No**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**4,46**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**7,5**	kW
T j = operation limit temperature	*Pdh*	**7,54**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4158**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**163**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,01**	-
T j = +2 °C	*COPd*	**4,66**	-
T j = +7 °C	*COPd*	**5,17**	-
T j = +12 °C	*COPd*	**5,51**	-
T j = bivalent temperature	*COPd*	**2,86**	-
T j = operation limit temperature	*COPd*	**2,86**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters
Cold climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**214**	%
Equipped with a supplementary heater:	**No**	Package efficiency class:		-
Heat pump combination heater:	**No**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**11**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**7,0**	kW
T j = + 2 °C	*Pdh*	**4,2**	kW
T j = + 7 °C	*Pdh*	**2,8**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**11,5**	kW
T j = operation limit temperature	*Pdh*	**11,45**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,96**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,013**	*kW*
Thermostat-off mode	P_{TO}	**0,034**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**5145**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**210**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**5,33**	-
T j = +2 °C	*COPd*	**5,90**	-
T j = +7 °C	*COPd*	**5,95**	-
T j = +12 °C	*COPd*	**5,74**	-
T j = bivalent temperature	*COPd*	**3,93**	-
T j = operation limit temperature	*COPd*	**3,93**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Warm climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**161**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**8**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**8,3**	kW
T j = + 7 °C	*Pdh*	**5,3**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**8,3**	kW
T j = operation limit temperature	*Pdh*	**8,3**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2687**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**157**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**2,75**	-
T j = +7 °C	*COPd*	**3,78**	-
T j = +12 °C	*COPd*	**5,12**	-
T j = bivalent temperature	*COPd*	**2,75**	-
T j = operation limit temperature	*COPd*	**2,75**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Warm climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**204**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**10,0**	kW
T j = + 7 °C	*Pdh*	**6,4**	kW
T j = + 12 °C	*Pdh*	**2,9**	kW
T j = bivalent temperature	*Pdh*	**10,0**	kW
T j = operation limit temperature	*Pdh*	**10,0**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2566**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**200**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**4,29**	-
T j = +7 °C	*COPd*	**5,29**	-
T j = +12 °C	*COPd*	**5,71**	-
T j = bivalent temperature	*COPd*	**4,29**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Average climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**159**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**6,0**	kW
T j = + 2 °C	*Pdh*	**3,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**6,7**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3444**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**155**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**3,25**	-
T j = +2 °C	*COPd*	**4,18**	-
T j = +7 °C	*COPd*	**4,70**	-
T j = +12 °C	*COPd*	**5,34**	-
T j = bivalent temperature	*COPd*	**3,00**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Average climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**212**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**8,8**	kW
T j = + 2 °C	*Pdh*	**5,4**	kW
T j = + 7 °C	*Pdh*	**3,5**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**9,8**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3800**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**208**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,59**	-
T j = +2 °C	*COPd*	**5,60**	-
T j = +7 °C	*COPd*	**6,05**	-
T j = +12 °C	*COPd*	**6,03**	-
T j = bivalent temperature	*COPd*	**4,30**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Cold climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**167**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**4,46**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**7,5**	kW
T j = operation limit temperature	*Pdh*	**7,54**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4158**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**163**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,01**	-
T j = +2 °C	*COPd*	**4,66**	-
T j = +7 °C	*COPd*	**5,17**	-
T j = +12 °C	*COPd*	**5,51**	-
T j = bivalent temperature	*COPd*	**2,86**	-
T j = operation limit temperature	*COPd*	**2,86**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Cold climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**214**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**11**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**7,0**	kW
T j = + 2 °C	*Pdh*	**4,2**	kW
T j = + 7 °C	*Pdh*	**2,8**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**11,5**	kW
T j = operation limit temperature	*Pdh*	**11,45**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,96**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,013**	*kW*
Thermostat-off mode	P_{TO}	**0,034**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**5145**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**210**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**5,33**	-
T j = +2 °C	*COPd*	**5,90**	-
T j = +7 °C	*COPd*	**5,95**	-
T j = +12 °C	*COPd*	**5,74**	-
T j = bivalent temperature	*COPd*	**3,93**	-
T j = operation limit temperature	*COPd*	**3,93**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Warm climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**143**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	**Symbol**	**Value**	**Unit**
Rated heat output (*)	*Prated*	**8**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**8,3**	kW
T j = + 7 °C	*Pdh*	**5,3**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**8,3**	kW
T j = operation limit temperature	*Pdh*	**8,3**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3022**	*kWh*

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	η_s	**139**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**2,51**	-
T j = +7 °C	*COPd*	**3,44**	-
T j = +12 °C	*COPd*	**4,57**	-
T j = bivalent temperature	*COPd*	**2,51**	-
T j = operation limit temperature	*COPd*	**2,51**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Warm climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**178**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**10,0**	kW
T j = + 7 °C	*Pdh*	**6,4**	kW
T j = + 12 °C	*Pdh*	**2,9**	kW
T j = bivalent temperature	*Pdh*	**10,0**	kW
T j = operation limit temperature	*Pdh*	**10,0**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2945**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**174**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**3,83**	-
T j = +7 °C	*COPd*	**4,70**	-
T j = +12 °C	*COPd*	**5,02**	-
T j = bivalent temperature	*COPd*	**3,83**	-
T j = operation limit temperature	*COPd*	**3,83**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Average climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**142**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A++**	-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**6,0**	kW
T j = + 2 °C	*Pdh*	**3,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**6,7**	kW
T j = operation limit temperature	*Pdh*	**6,66**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3839**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**138**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**2,96**	-
T j = +2 °C	*COPd*	**3,78**	-
T j = +7 °C	*COPd*	**4,21**	-
T j = +12 °C	*COPd*	**4,74**	-
T j = bivalent temperature	*COPd*	**2,73**	-
T j = operation limit temperature	*COPd*	**2,73**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Average climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**187**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**8,8**	kW
T j = + 2 °C	*Pdh*	**5,4**	kW
T j = + 7 °C	*Pdh*	**3,5**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**9,8**	kW
T j = operation limit temperature	*Pdh*	**9,8**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4310**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**183**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,09**	-
T j = +2 °C	*COPd*	**4,96**	-
T j = +7 °C	*COPd*	**5,33**	-
T j = +12 °C	*COPd*	**5,29**	-
T j = bivalent temperature	*COPd*	**3,82**	-
T j = operation limit temperature	*COPd*	**3,82**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Cold climate and Medium temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**149**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**4,5**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**7,5**	kW
T j = operation limit temperature	*Pdh*	**7,54**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,96**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4634**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**145**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**3,64**	-
T j = +2 °C	*COPd*	**4,18**	-
T j = +7 °C	*COPd*	**4,59**	-
T j = +12 °C	*COPd*	**4,88**	-
T j = bivalent temperature	*COPd*	**2,61**	-
T j = operation limit temperature	*COPd*	**2,61**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump space heaters and heat pump combination heaters

Cold climate and Low temperature

Enertech AB
341 26 Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**189**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	**Symbol**	**Value**	**Unit**
Rated heat output (*)	*Prated*	**11**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**7,0**	kW
T j = + 2 °C	*Pdh*	**4,2**	kW
T j = + 7 °C	*Pdh*	**2,8**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**11,5**	kW
T j = operation limit temperature	*Pdh*	**11,5**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**5836**	*kWh*

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	η_s	**185**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,72**	-
T j = +2 °C	*COPd*	**5,19**	-
T j = +7 °C	*COPd*	**5,22**	-
T j = +12 °C	*COPd*	**5,03**	-
T j = bivalent temperature	*COPd*	**3,51**	-
T j = operation limit temperature	*COPd*	**3,51**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.